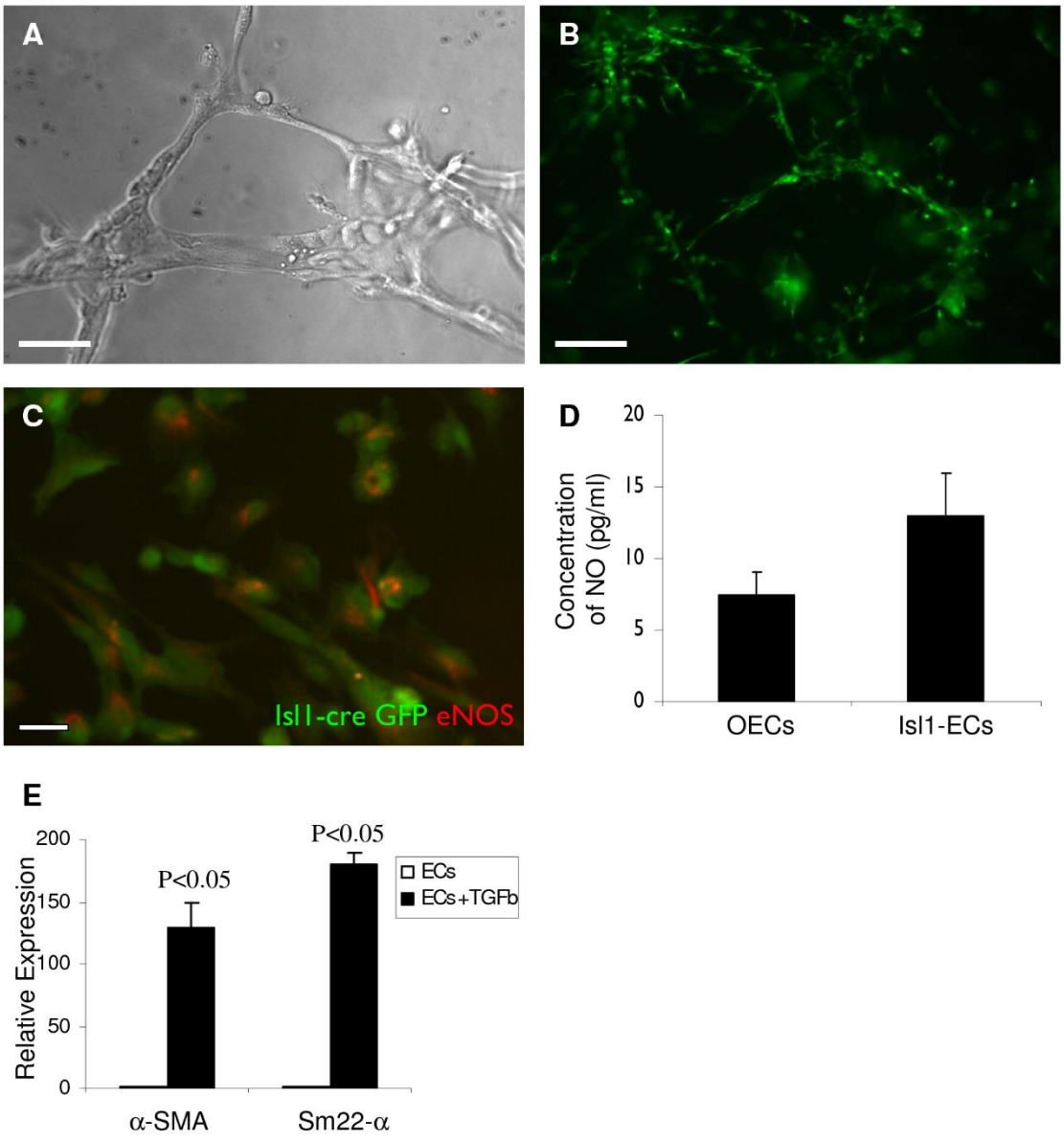

Supplementary information, Figure S5 Tube formation, nitric oxide secretion and endothelial-to-mesenchymal transition potential of endothelial cells derived from the human Isl1^{+} progenitors.

(A, B) Tube formation assays using the FACS-purified CD144^{+}CD31^{+} ECs differentiated from the day-7 human Isl1-cre eGFP^{+} cells in the presence of VEGF-A for 7 days (Isl1-ECs). The cells were harvested and cultured in matrigel overnight. Live images were taken under the (A) phase contrast or (B) fluorescent microscopes, scale bars = 100 μM. (C) Immunostaining of eNOS expression in the Isl1-ECs, scale bar = 5 μM. (D) ELISA analyses using nitric oxide (NO)-containing supernatant cultured with the Isl1-ECs. (E) qPCR data showing expression levels of mesenchymal cell markers (α-SMA and Sm22) in Isl1-ECs cultured with TGF-β for 7 days, expression levels were compared to that of Isl1-ECs cultured in the same condition without TGF-β (value on y-axis = 1).